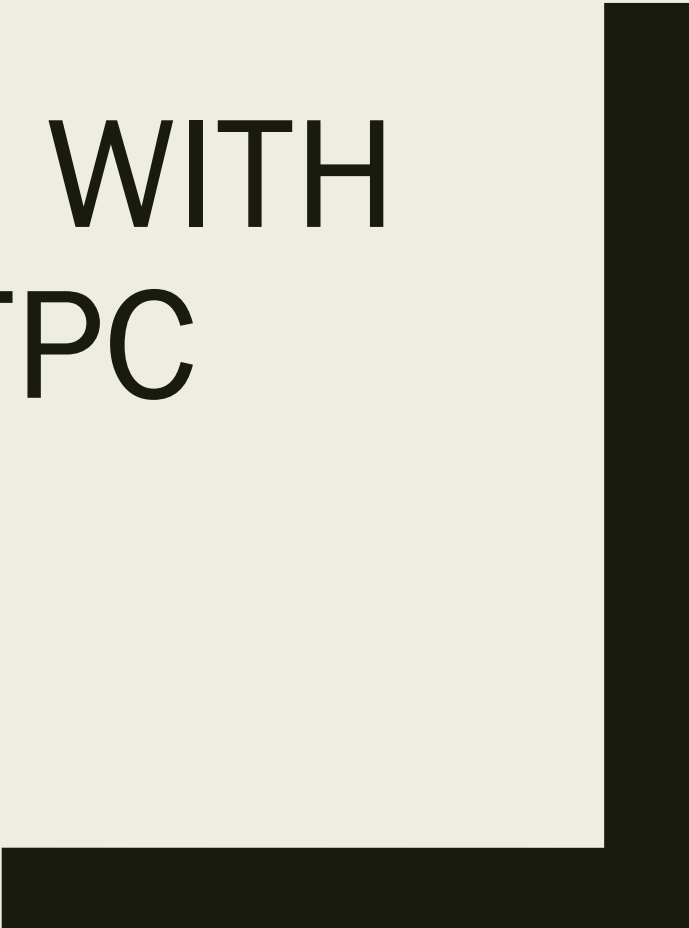


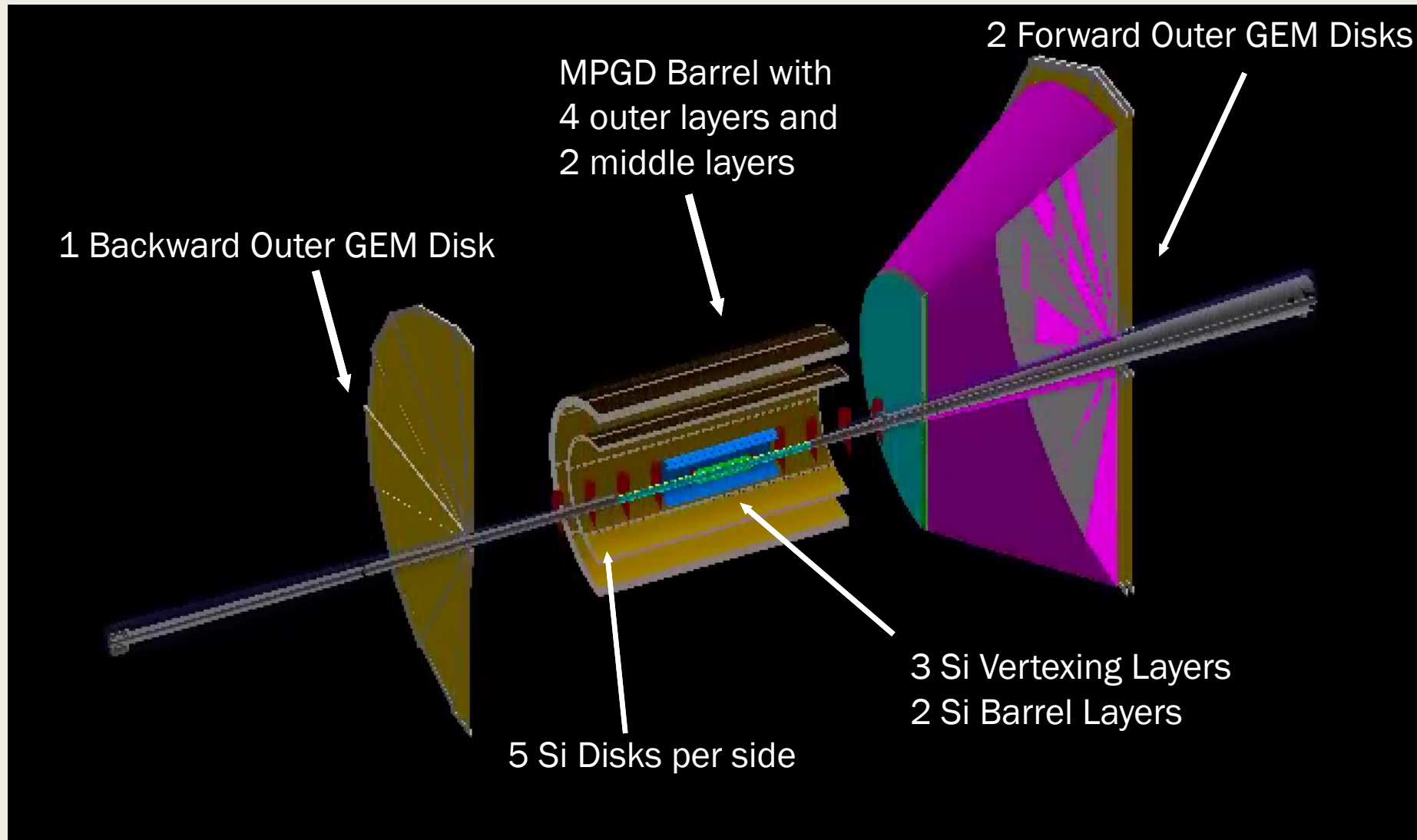


# HYBRID TRACKING WITH GRID PIX MINI TPC

Nick Lukow  
August 2, 2021  
eRD6 Simulation Meeting

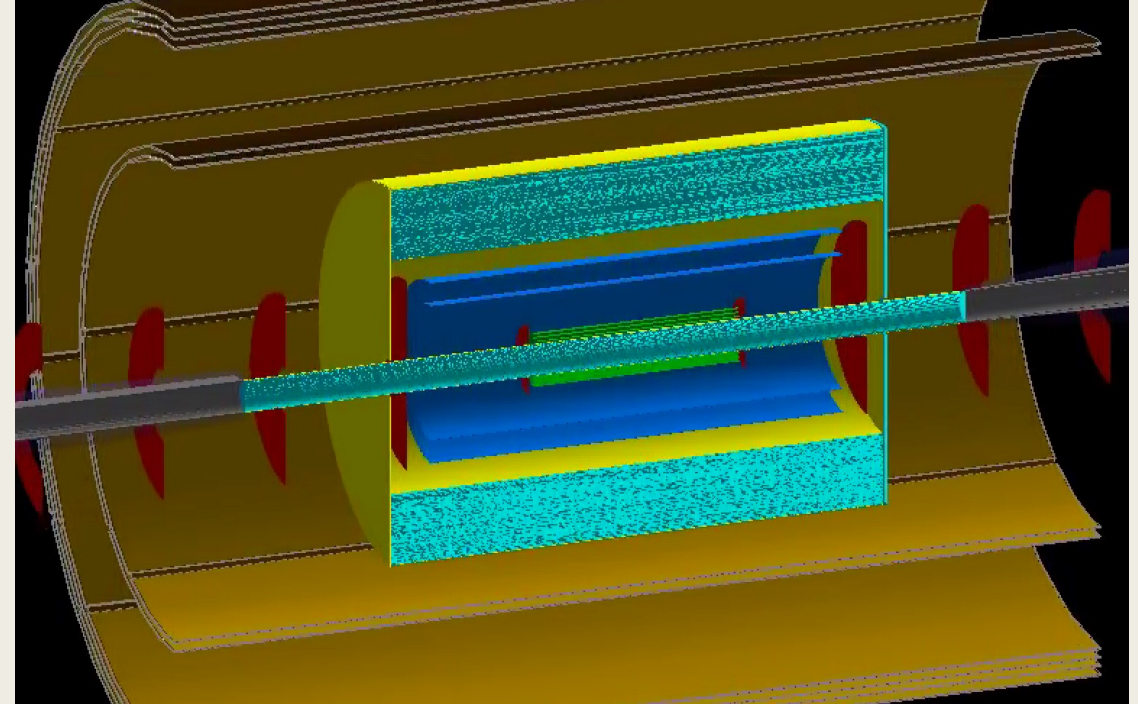


# Baseline Hybrid Detector Configuration

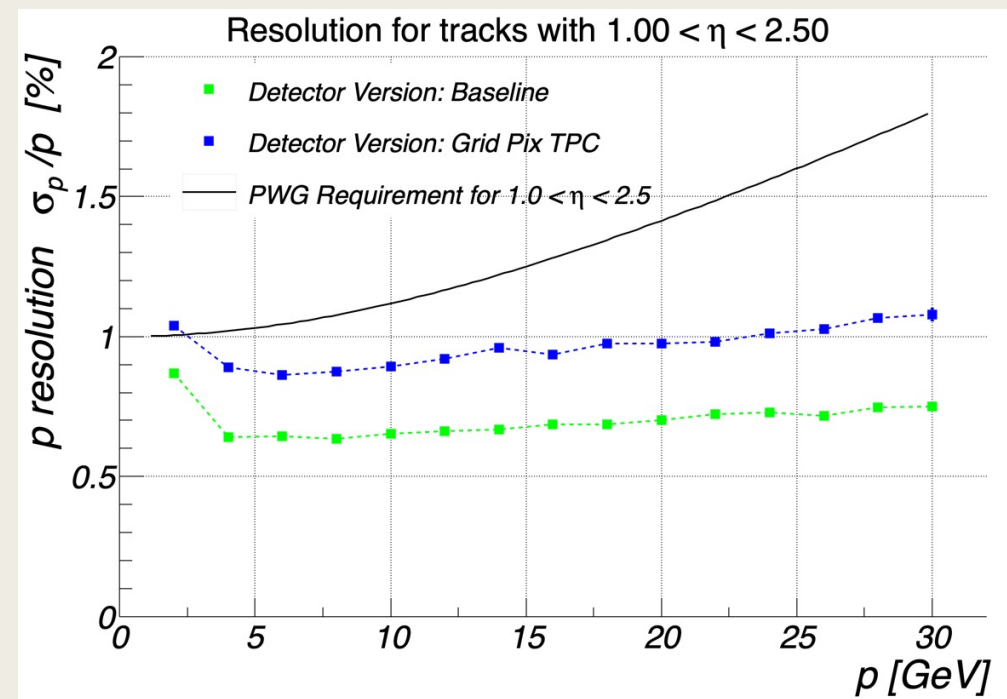
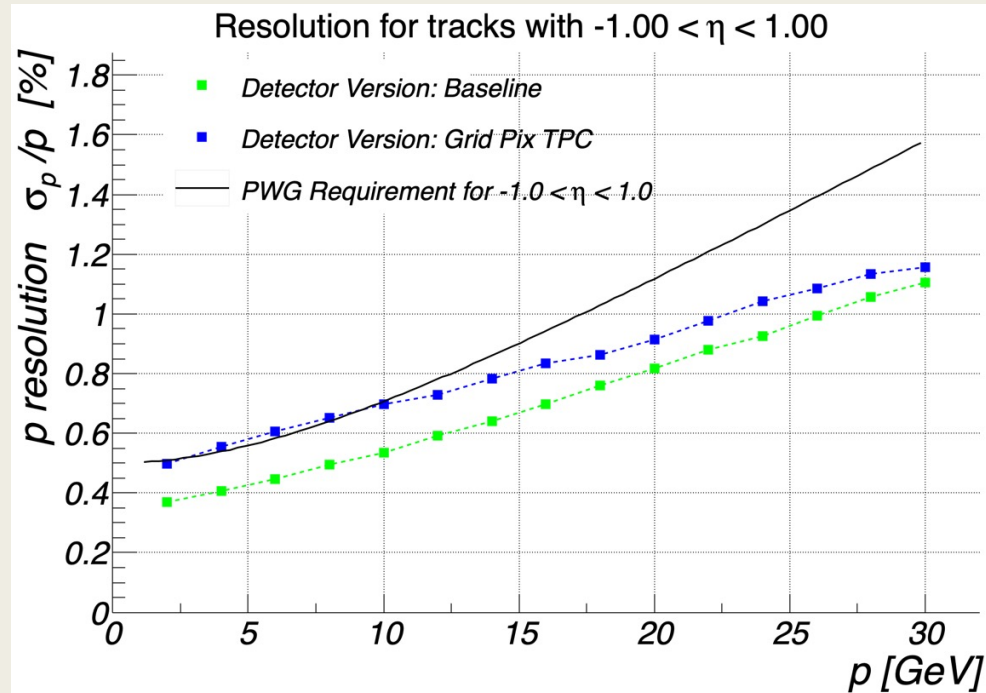
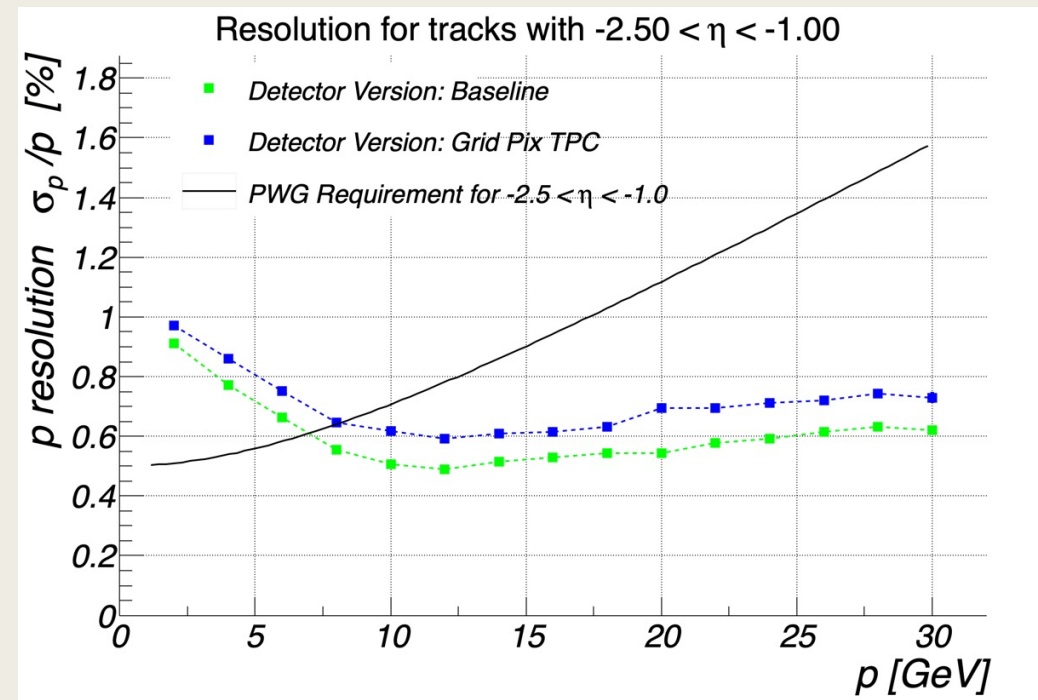


# Addition of GridPix TPC

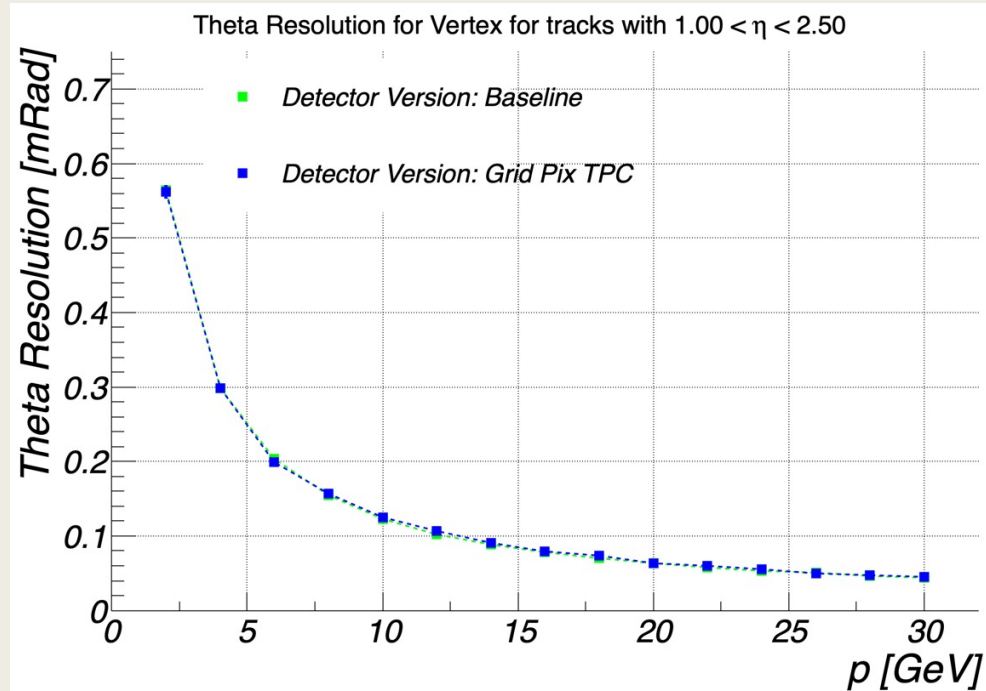
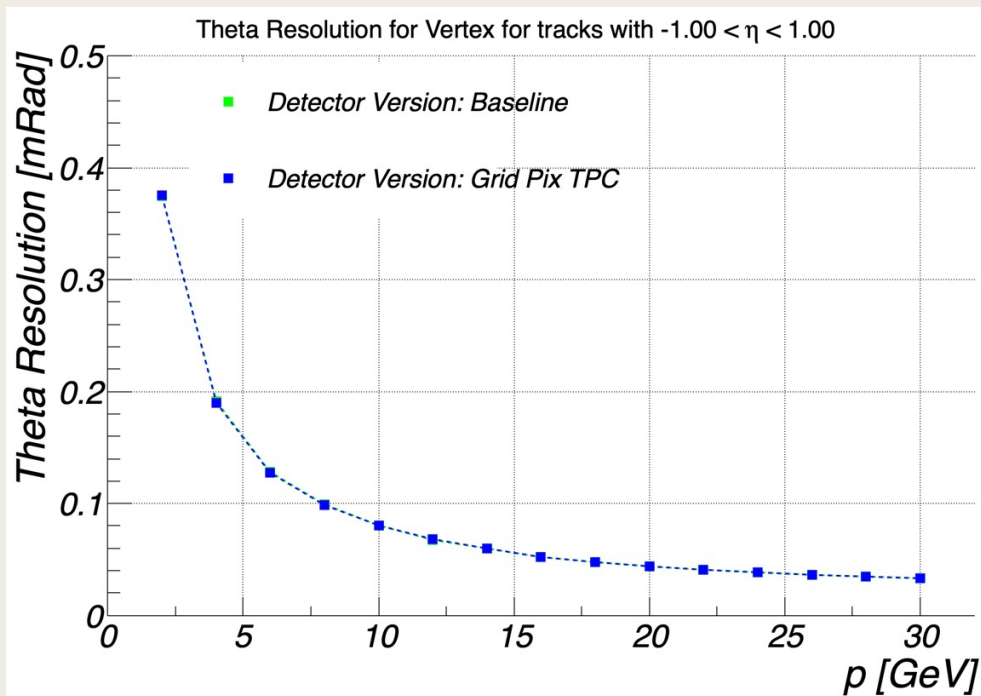
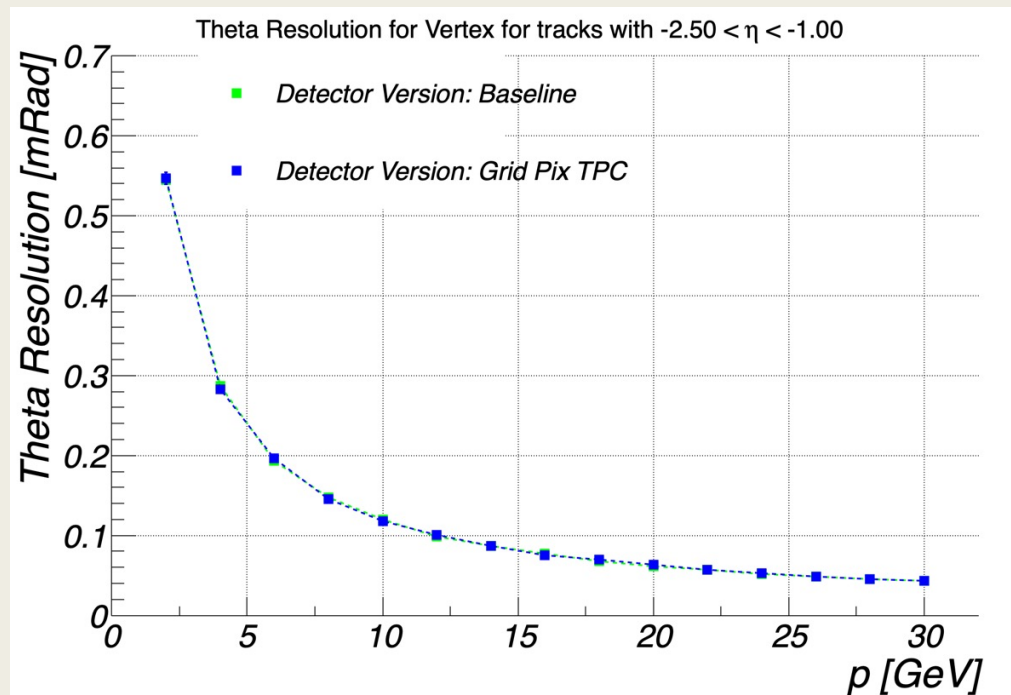
- Implementation by Matt
- 100x200  $\mu\text{m}$  resolution, 90% efficiency
- 125 gas layers
- 23.5-37.5 cm in radius, 100 cm long



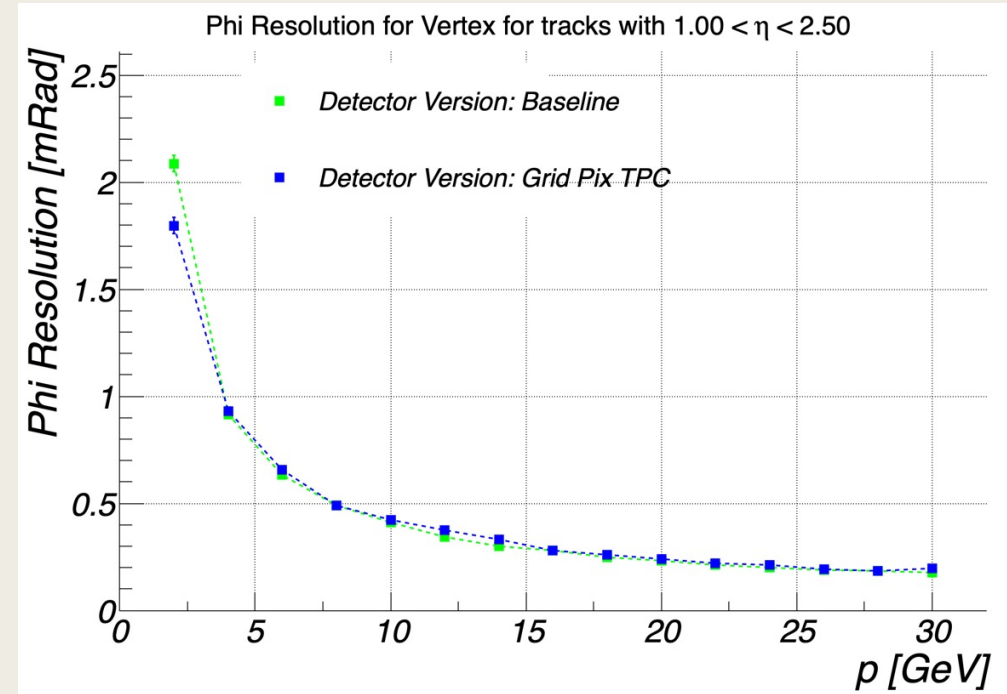
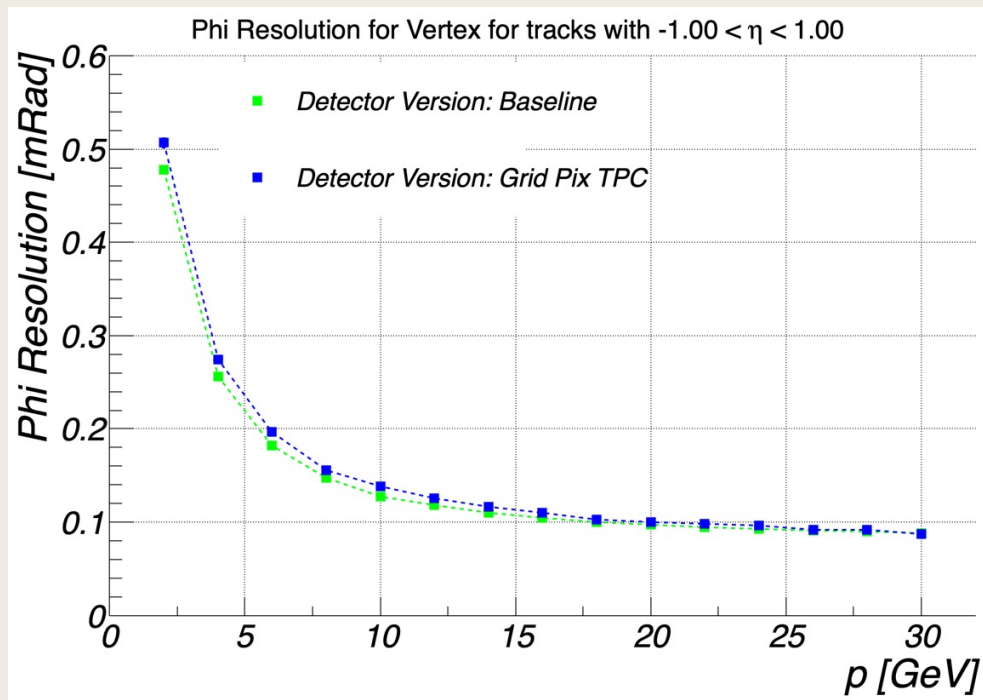
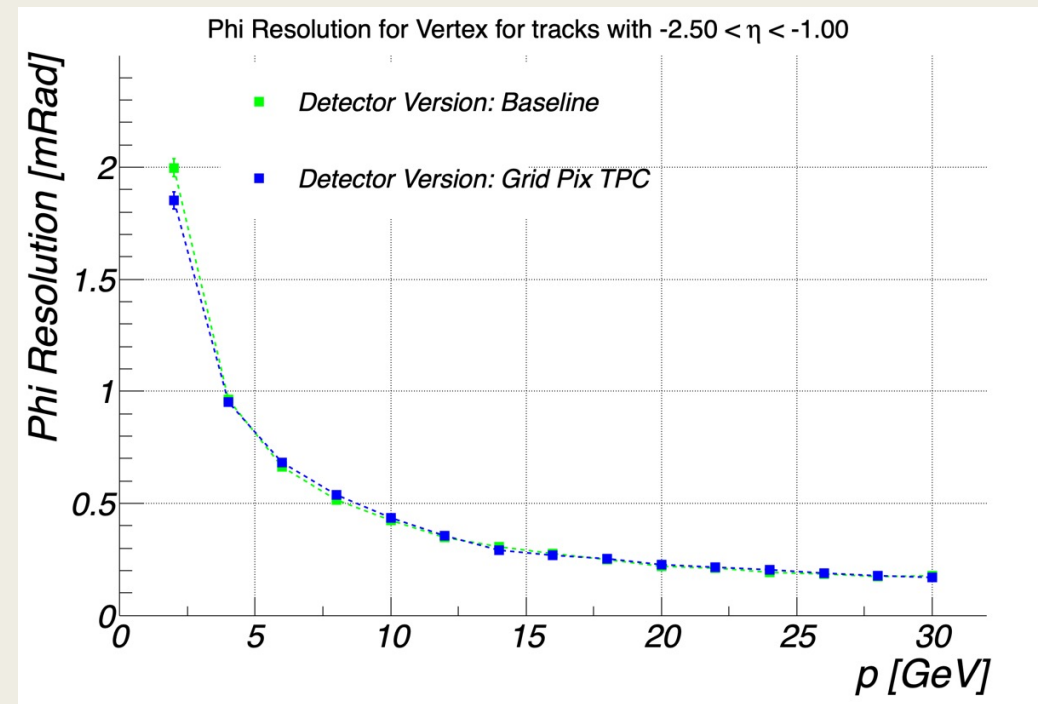
# Momentum Resolutions



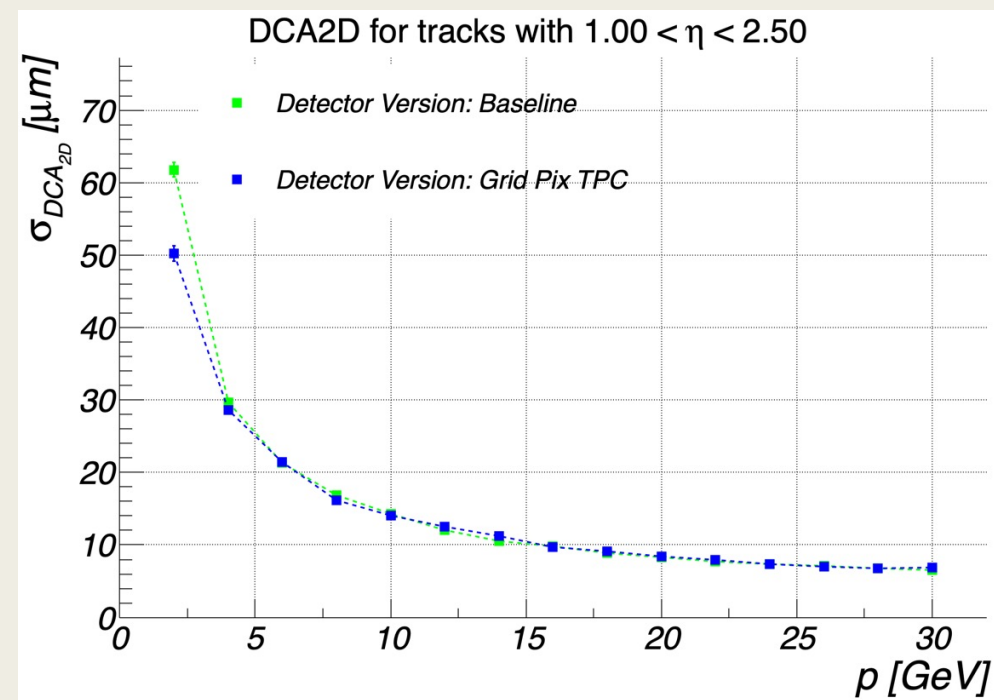
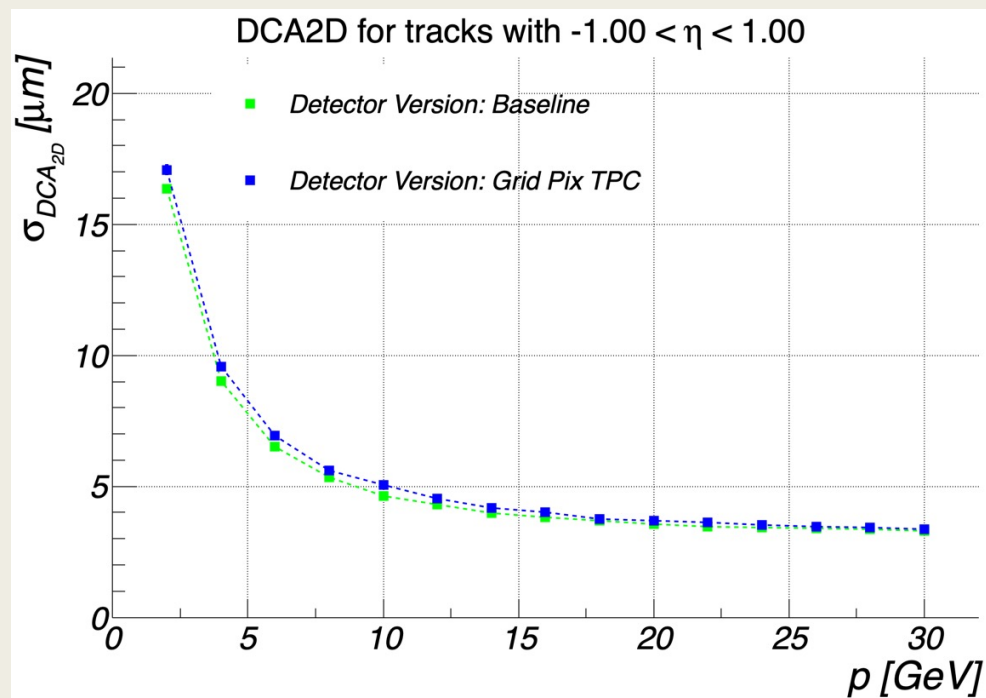
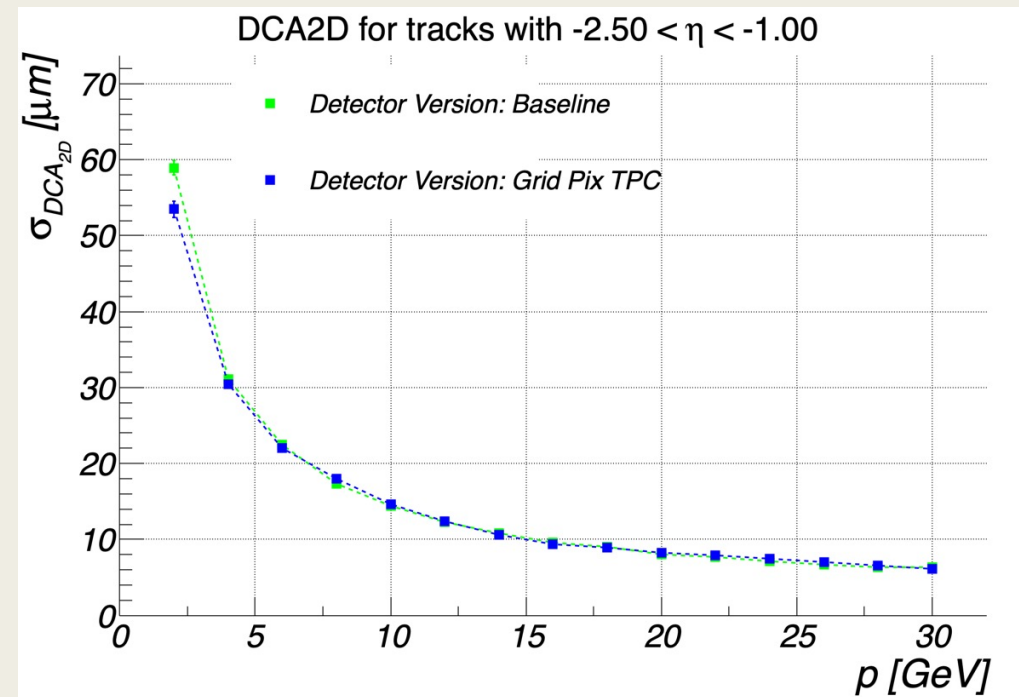
# Theta Resolutions at Vertex



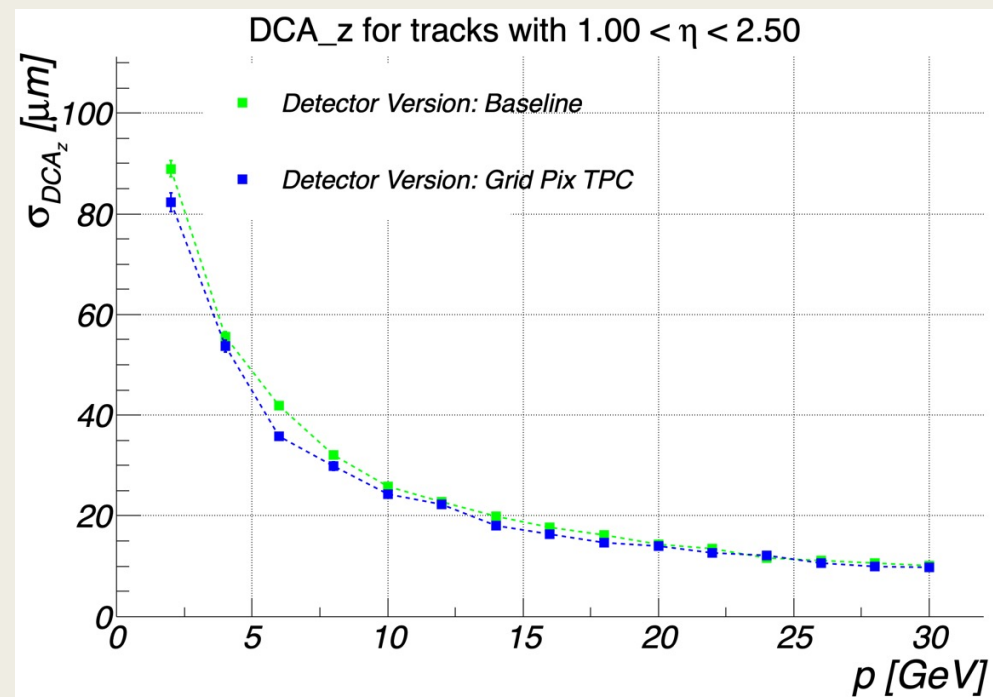
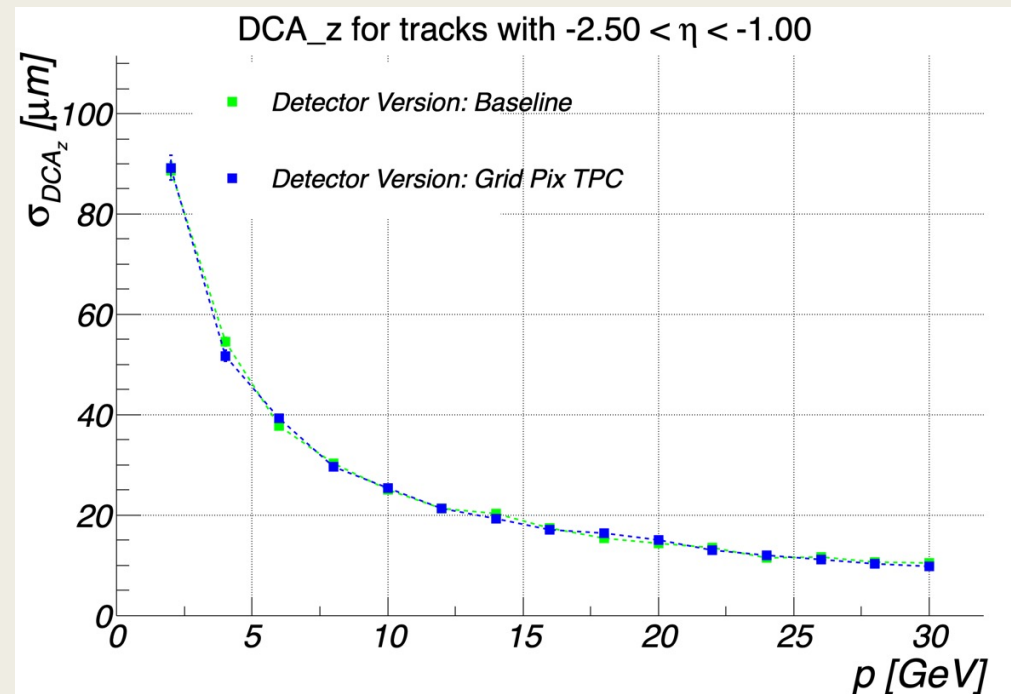
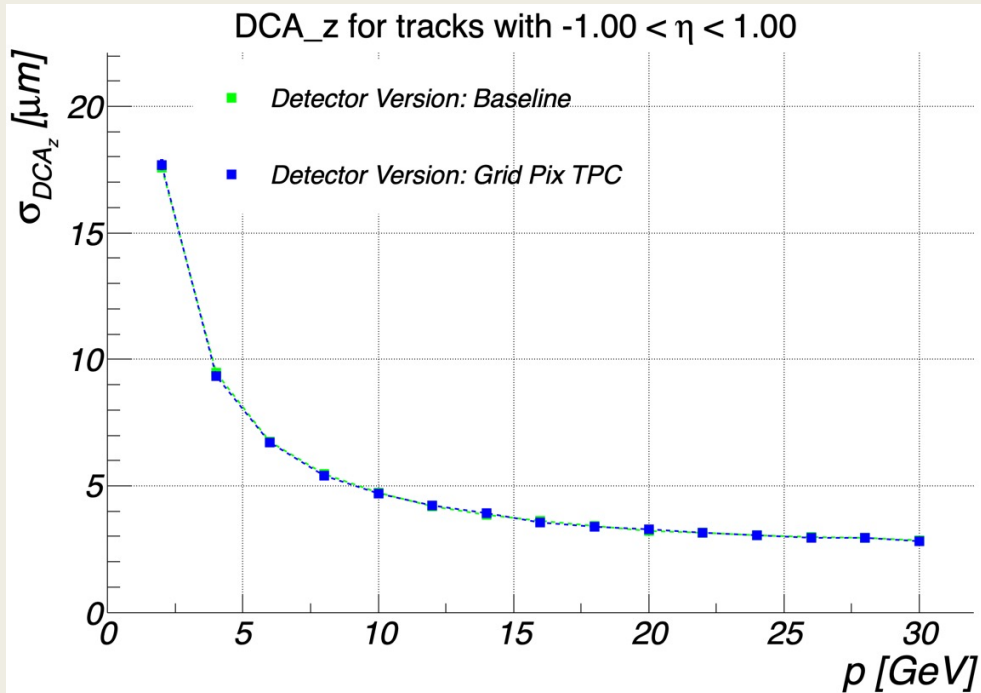
# Phi Resolutions at Vertex



# Transverse Pointing Resolutions



# Longitudinal Pointing Resolutions



# Backup Slides